

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000387

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D401/12 A61K31/435 A61P35/00 C07D213/82 C07D213/68
C07D409/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/099771 A (NOVARTIS AG; NOVARTIS PHARMA GMBH; FLOERSHEIMER, ANDREAS; FURET, PASCA) 4 December 2003 (2003-12-04) claim 1; examples e.g., 24, 28, 29, 41, 52, 53	1-30
X	WO 99/32436 A (BAYER CORPORATION) 1 July 1999 (1999-07-01) examples 12-14, 25, 26 claims 1, 15	1-30
X	US 2003/144278 A1 (RIEDL BERND ET AL) 31 July 2003 (2003-07-31) Scheme IV page 4; claims page 51; example 102; table 7	1-30
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

28 June 2006

Date of mailing of the international search report

12.10.06

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 191 767 A (LUBER, EDWARD J JR ET AL) 4 March 1980 (1980-03-04) urea starting material for compound 195;table IV; compound 93 -----	1-4,30
X	DYCK B ET AL: "Aryl piperazine melanocortin MC4 receptor agonists" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 13, no. 21, 3 November 2003 (2003-11-03), pages 3793-3796, XP002279632 ISSN: 0960-894X compound 28 -----	30
X	KREMER, C.B. ET AL.: "Morpholine condensations" J. AM. CHEM. SOC., vol. 61, 1939, pages 2552-2552, XP002387485 right-hand column, line 5 - line 6 -----	30
X	KRBECEK, L. ET AL.: "The thermal decomposition of benzylidene-2-azidoanilines" J. ORG. CHEM., vol. 29, 1964, pages 3630-3632, XP002387486 N-(2-aminophenyl)succinimide; page 3632, left-hand column -----	30
X	DATABASE BEILSTEIN [Online] XP002387488 Database accession no. 163948 abstract & PRELOG & BLAZEK: COLLECT. CZECH. CHEM. COMMUN., vol. 6, 1934, pages 211-218, -----	30

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 13,15-28 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds/compositions according to claim 5.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-30(part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-30(part)

Compounds of formula I having $R7 = \text{Het}$, their uses and intermediates of formula III

2. claims: 1-30(part)

Compounds of formula I having $R7 = \text{OHet}$, their uses and intermediates of formula III

3. claims: 1-30(part)

Compounds of formula I having $R7 = \text{O}(\text{CR5R6})\text{kHet}$, their uses and intermediates of formula III

4. claims: 1-30(part)

Compounds of formula I having $R7 = \text{NR11}(\text{CR5R6})\text{kHet}$, their uses and intermediates of formula III

5. claims: 1-30(part)

compounds of formula I having $R7 = (\text{CR5R6})\text{kNR11R12}$, their uses and intermediates of formula III

6. claims: 1-30(part)

Compounds of formula I having $R7 = (\text{CR5R6})\text{kOR13}$, their uses and intermediates of formula III

7. claims: 1-30(part)

Compounds of formula I having $R7 = \text{O}(\text{CR5R6})\text{kNR11R12}$, their uses and intermediates of formula III

8. claims: 1-30(part)

Compounds of formula I having $R7 = \text{O}(\text{CR5R6})\text{kOR13}$, their uses and intermediates of formula III

9. claims: 1-30(part)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Compounds of formula I having $R7 = SO_2R_{13}$, $SO_2(CR_5R_6)_k$,
 $SO_2(CR_5R_6)kNR_{11}R_{12}$ or $SO_2CR_8=R_8$, their uses and
intermediates of formula III

10. claim: 31

intermediates of formula IV

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000387

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03099771	A	04-12-2003	
		AU 2003242591 A1	12-12-2003
		BR 0311313 A	15-02-2005
		CA 2484288 A1	04-12-2003
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		ID 26956 A	22-02-2001
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		NO 20003230 A	21-08-2000
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		TR 200002616 T2	21-11-2000
		TR 200100874 T2	21-06-2001
		UA 72451 C2	15-12-2000
US 2003144278	A1	31-07-2003	NONE
US 4191767	A	04-03-1980	NONE